

ERA ToRQ™



Make Up torque values for ERA ToRQ used in conjunction with data sheets Rev2.0

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Ring Dimensional Characteristics						ERA ToRQ ring Characteristics (Ftlbs)				
OD (in)	PPF	Grade	Nominal OD Ring Inches	Nominal ID Ring Inches	Nominal Ring Height Inches	Base of Triangle	Max Field Delta with computer ftlbs	Total Field Torque with computer advised ftlbs	Max Delta Torque to ring yield point ftlbs	% Safety Margin for Delta Torque
4 ½	11.6	K55	4.3	4.00	0.921	4500	4480	8980	8960	100%
4 ½	11.6	L80 / N80	4.3	4.00	0.921	4500	6516	11016	13033	100%
4 ½	11.6	P110	4.3	4.00	0.921	4500	8960	13460	17920	100%
4 ½	13.5	K55	4.3	4.00	0.921	4500	5616	10116	11233	100%
4 ½	13.5	L80/N80	4.3	3.92	0.921	4500	8170	12670	16340	100%
4 1/2	13.5	P110	4.3	3.92	0.921	4500	11233	15750	22467	100%
4 ½	15.10	K55	4.3	4.00	0.921	4500	6286	10786	12572	100%
4 ½	15.10	L80/N80	4.3	3.826	0.921	4500	9143	13543	18286	100%
4 ½	15.10	P110	4.3	3.826	0.921	4500	12572	17072	25144	100%
5	15	K55	4.72	4.408	0.921	5000	5124	10124	10248	100%
5	15	L80/N80	4.72	4.408	0.921	5000	7453	12453	14906	100%
5	15	P110	4.72	4.408	0.921	5000	10256	15256	20513	100%
5	18	K55	4.72	4.408	0.921	5000	7216	12216	14432	100%
5	18	L80/N80	4.72	4.408	0.921	5000	10483	15483	20966	100%
5	15	P110	4.72	4.408	0.921	5000	14400	19400	28801	100%
5 ½	17	K55	5.21	4.89	0.921	5500	5788	11288	11576	100%
5 ½	17	L80/N80	5.21	4.89	0.921	5500	8416	13916	16833	100%
5 ½	17	P110	5.21	4.89	0.921	5500	11572	17072	23145	100%
5 ½	20	K55	5.21	4.89	0.921	5500	7756	13256	15512	100%
5 ½	20	L80/N80	5.21	4.78	0.921	5500	11253	16753	22506	100%
5 ½	20	P110	5.21	4.89	0.921	5500	15473	20973	30946	100%
5 ½	23	K55	5.21	4.89	0.921	5500	9616	15116	19232	100%
5 ½	23	L80/N80	5.21	4.67	0.921	5500	13960	19460	27920	100%
5 ½	23	P110	5.21	4.89	0.921	5500	19195	24695	38390	100%

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Ring Dimensional Characteristics						ERA ToRQ ring Characteristics (Ftibs)				
OD (in)	PPF	Grade	Nominal OD Ring Inches	Nominal ID Ring Inches	Nominal Ring Height Inches	Base of Triangle	Max Field Delta with computer	Total Field Torque with computer advised	Max Delta Torque to ring yield point	% Safety Margin for Delta Torque
6 5/8	24	K55	6.32	5.92	0.921	6630	8650	15280	17300	100%
6 5/8	24	L80/N80	6.32	5.92	0.921	6630	12613	19243	25226	100%
6 5/8	24	P110	6.32	5.92	0.921	6630	17343	23973	34686	100%
6 5/8	28	K55	6.32	5.79	0.921	6630	10500	17130	21000	100%
6 5/8	28	L80/N80	6.32	5.92	0.921	6630	16733	23353	33466	100%
6 5/8	28	P110	6.32	5.92	0.921	6630	22966	29556	45933	100%
7	23	K55	6.73	6.366	0.921	7000	8637	15637	17275	100%
7	23	L80/N80	6.73	6.366	0.921	7000	12480	19480	24960	100%
7	23	P110	6.73	6.366	0.921	7000	17082	24082	34164	100%
7	26	K55	6.73	6.366	0.921	7000	10532	17532	21065	100%
7	26	L80/N80	6.73	6.276	0.921	7000	15360	22360	30720	100%
7	26	P110	6.73	6.366	0.921	7000	21074	28074	42148	100%
7	29	K55	6.73	6.366	0.921	7000	12600	19600	25200	100%
7	29	L80/N80	6.73	6.184	0.921	7000	18430	25430	36860	100%
7	29	P110	6.73	6.366	0.921	7000	25200	32200	50400	100%
7	32	K55	6.73	6.366	0.921	7000	14591	21591	29182	100%
7	32	L80/N80	6.73	6.094	0.921	7000	21223	28223	42447	100%
7	32	P110	6.73	6.366	0.921	7000	29182	36182	58364	100%
7 5/8	26.4	K55	7.31	6.97	0.921	7630	8758	16388	17517	100%
7 5/8	26.4	L80/N80	7.31	6.97	0.921	7630	12776	20406	25552	100%
7 5/8	26.4	P110	7.31	6.97	0.921	7630	17527	25157	35055	100%
7 5/8	29.7	K55	7.31	6.97	0.921	7630	11106	18736	22212	100%
7 5/8	29.70	L80/N80	7.31	6.875	0.921	7630	16154	23784	32308	100%
7 5/8	29.7	P110	7.31	6.97	0.921	7630	22212	29842	44424	100%

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Ring Dimensional Characteristics						ERA ToRQ ring Characteristics (Ftlbs)				
OD (in)	PPF	Grade	Nominal OD Ring Inches	Nominal ID Ring Inches	Nominal Ring Height Inches	Base of Triangle	Max Field Delta with computer	Total Field Torque with computer advised	Max Delta Torque to ring yield point	% Safety Margin for Delta Torque
9 5/8	40	K55	9.32	8.835	0.921	9630	15848	25478	31696	100%
9 5/8	40	L80/N80	9.32	8.835	0.921	9630	23052	32682	46104	100%
9 5/8	40	P110	9.32	8.835	0.921	9630	31696	41326	63392	100%
9 5/8	43.50	K55	9.32	8.835	0.921	9630	18379	28000	36758	100%
9 5/8	43.50	L80/N80	9.32	8.755	0.921	9630	26733	36363	53466	100%
9 5/8	43.50	P110	9.32	8.835	0.921	9630	36500	46130	73000	100%
9 5/8	47	K55	9.32	8.835	0.921	9630	20072	30332	41405	100%
9 5/8	47	L80/N80	9.32	8.681	0.921	9630	30113	39743	60226	100%
9 5/8	47	P110	9.32	8.835	0.921	9630	41405	51035	82811	100%
9 5/8	53.5	K55	9.32	8.535	0.921	9630	25226	34856	50453	100%
9 5/8	53.5	L80/N80	9.32	8.535	0.921	9630	36693	46323	73386	100%
9 5/8	53.5	P110	9.32	8.535	0.921	9630	50453	60083	100906	100%
13 3/8	54.5	K55	13.07	12.615	0.921	13380	21034	34414	42069	100%
13 3/8	61	L80/N80	13.07	12.515	0.921	13380	37174	50554	74349	100%
13 3/8	68	L80/N80	13.07	12.415	0.921	13380	43701	57081	87402	100%
16	84	K55	15.5	15.01	0.921	16000	26907	42907	53815	100%
16	84	L80/N80	15.5	15.01	0.921	16000	39138	55138	78277	100%
16	84	P110	15.5	15.01	0.921	16000	53815	69815	107631	100%
20	94	K55	19.5	19.127	0.921	20000	26138	46138	52277	100%
20	133	K55	19.5	19.127	0.921	20000	52981	72981	105962	100%

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